BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of work: Estimate for Improvements to drains and construction of concrete roads at Varadarajanagar 5th cross and other roads in ward No 11 (Kuvempunagara) in Vidyaranyapura Sub Division.

011-17-000010		P-3165		Est Cost Rs.			3000000.00		
Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
1	KSRRB M200-24:- dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces no exceeding 0.02 Cum in volume and stock piling at designated locations and disposal of dismantled materials upto a lead of 1000 meters, stacking serviceable and unserviceable materials separately complete as per specifications. ORTH specifications. No. **202, No. 137 / Item No. 18.47 / PWD SR 2015-16**	Cum							
	4th Cross Varadarajangara		1	100.00	5.00	0.15	75.00		
	5thCross		1	100.00	5.00	0.15	75.00		
							150.00	822.96	**123444.00**
	Basic Rate	762.00							
	Area Weightage @8%	60.96							
	Total	**822.96**							
2	KSRRB 300-1. **Earthwork excavation by manual means** in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 1.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 **(Page No141., I.No.19.1 of PWD S.R 2015-16).**	Cum							
	Drain desilting Varadarajangara								
	4th cross road		2	100.00	0.45	0.30	27.00		
	5th cross		2	100.00	0.45	0.30	27.00		
	For road work								
	4th cross Road		1	100.00	5.00	0.15	75.00		
	5th cross		1	100.00	5.00	0.15	75.00		
	Block Drain - 1ST CROSS		2	100.00	0.75	0.85	127.50		
	2ND CROSS		2	100.00	0.75	0.85	127.50		
	Culvert		1	6.00	1.80	1.20	12.96		
							471.96	192.79	**90990.00**
	Basic Rate	77.00							
	Add loading and unloading Charges **It No 17.1 KSRRB M 100-1**	68.00							
	Average weight of earth 1.28 tonne / kg for 11.90 Km = 1.28 T X 11.90Km X 2.2 / km= 33.51	33.51							
		178.51							
	Area Weightage @8%	14.28							
	Total	**192.79**							
3	Removing BS Slab of drain and Stacking **(Page No 25., I.No.5.32 of PWD S.R 2015-16).**	**sqm**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	4th cross road L/s		2	100.00		1.35	270.00		
	5th cross		2	100.00		1.35	270.00		
							540.00	63.72	**34409.00**
	Basic Rate	59.00							
	Area Weightage @8%	4.72							
	Total	**63.72**							
4	Refixing Stone Slabs of drains and Pointing in C.M(1:3) **(Page No 25., I.No.5.33 of PWD S.R 2015-16).**	Sqm							
			Qty as per It No. 02				**540.00**	78.84	**42574.00**
	Basic Rate	73.00							
	Area Weightage @8%	5.84							
	Total	**78.84**							
5	KSRB 4-1.3 : Providing and laying in position plain cement concrete of **mix 1:4:8 with OPC cement @ 180 kgs with 40mm** and down size graded granite metal coarse aggregates @ 0.85cum and fine aggregares @ 0.57 cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2. **No. 12 / Item No. 4.3 / PWD SR 2015-16**	Cum							
	4th cross road Varadarajanagara		1	100.00	5.00	0.15	75.00		
			1	100.00	5.00	0.15	75.00		
	Block Drain		2	100.00	0.75	0.15	22.50		
			2	100.00	0.75	0.15	22.50		
	Culvert		1	6.00	1.80	0.15	1.62		
							196.62	5070.60	**996981.00**
	Basic Rate	4695.00							
	Area Weightage @ 8%	375.60							
	Total	**5070.60**							
6	KSRB 5-14 : Providing and constructing precast concrete solid blocks with compressive strength not les than 35 Kg/sqm with cement mortar 1:4 masonry (quoin, Jamb, closer blocks) with solid concrete blocks of size 40x20x20 cms conforming to I.S: 2185/1965 in superstructure including cost of materials, labour charges, scaffolding, curing complete as per specifications. **Page No. 25 / Item No. 5.27 / PWD SR 2015-16**	Sqm							
	Block Drain		2	100.00		0.60	120.00		
			2	100.00		0.60	120.00		
							240.00	1018.44	**244426.00**
	Basic Rate	943.00							
	Area Weightage @ 8%	75.44							
	Total	**1018.44**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
7	KSRB 5-15 : Providing and constructing non-load bearing wall with cement concrete solid blocks with compressive strength no less than 35 Kg/sqm with cement mortar 1:4 (Jamb, closer blocks) with solid concrete blocks of size 40x10x20 cms.(lxblxh) conforming to I.S: 2185/1965 in superstructure including cost of materials, labour charges, scaffolding, curing complete as per specifications. **Page No. 25 / Item No. 5.28 / PWD SR 2015-16**	Sqm							
	Block Drain		2	100.00		0.60	120.00		
			2	100.00		0.60	120.00		
							240.00	743.04	**178330.00**
	Basic Rate	688.00							
	Area Weightage @ 8%	55.04							
	Total	**743.04**							
8	KSRB 4-1.6 : Providing and laying in position plain cement concrete of **mix 1:2:4 with cement @ 240 kgs with 20mm** and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum, machine mixed, concrete laid in layers not exceeding 15cms, thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications, specification. No. KBS 4.1,4.2. **No. 12/ Item No. 4.6 / PWD SR 2015-16**	Cum							
	Block Drain Bottom		2	100.00	0.40	0.10	8.00		
			2	100.00	0.40	0.10	8.00		
	Coping		2	100.00	0.20	0.075	3.00		
			2	100.00	0.20	0.075	3.00		
			2	100.00	0.10	0.075	1.50		
			2	100.00	0.10	0.075	1.50		
							25.00	5490.72	**137268.00**
	Basic Rate	5084.00							
	Area Weightage @ 8%	406.72							
	Total	**5490.72**							
9	KSRB 15.3.9: Providing 18mm thick cement plaster in single coat with cement mortar 1:6, to brick masonry including rounding off corners wherever required smooth rendering, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. **Page No. 113 / Item No. 15.17 / PWD SR 2015-16 (Outside Wall)**	Sqm							
	Block Drain		2	100.00		0.60	120.00		
			2	100.00		0.60	120.00		
							240.00	203.04	**48730.00**
	Basic Rate	188.00							
	Area Weightage @ 8%	15.04							
	Total	**203.04**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
10	Providing and laying cement concrete using 20mm and down size granite jelly of ready mixed concrete (RMC)for R.C.C works laid in 15cms thick layers and well compacted vibrating, curing, finishing with necessary cement mortar, form works and scaffoldings to withstand pumping of concrete, with all lead and lifts etc., complete (exclusive of cost of steel and fabrication charges.) Ready mixed Cement concrete M-20 (1:1.5:3) for raft foundation, column footing, main and secondary beams. **Page No. 18 / Item No. 4.48 / PWD SR 2015-16**	Cum							
	For Cds bottom		1	6.00	1.50	0.15	1.35		
	side wall		2	6.00	0.30	0.90	3.24		
							4.59	6332.04	**29064.00**
	Basic Rate	5863.00							
	Area Weightage @8%	469.04							
	Total	**6332.04**							
11	KSRB 4.9.2 : Providing **T .M.T steel reinforcement** for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 for TMT Bars Fe500 **(Page No 17., I.No.4.46.2 of KPWD S.R 2015-16).**	**Tonne**							
	taking 80kg/cum		0.08	4.59	80 kg/cum		**0.37**	59327.91	**21785.00**
	Basic Rate	54933.25							
	Area Weightage @8%	4394.66							
	Total	**59327.91**							
12	Providing **precast slab of 250mm thick** including cost of all materials, labour, curing,transportation,loading unloading, etc.,complete as per the direction of engineer in charge- Data rate	**sqm**							
	culvert deck slab		1	6.00	1.50		**9.00**	5125.00	**46125.00**
	Approved Data rate	5125.00							
13	Providing **precast slab of 100mm thick** including cost of all materials, labour, curing, transportation, loading unloading, etc., complete as per the direction of engineer in charge- Data rate	Sqm							
	RCC Drain Slab		1	110.00	0.90		99.00		
							99.00	1760.00	**174240.00**
	Approved Data rate	1760.00							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
14	KSRRB M600-6: cement concrete pavement, construction unreinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with 43 grade cement or any other type as per clause 1051.2.2M20/M30 at 380/450 kg per cum, coarse and fine aggregate conforming to IS: 383, maximum size of coarse aggregate not exceeding 25mm, mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including leveling the form work as per drawing,), spreading the concrete with shovels, rackers compacted using needle, scred and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints, **including groove cutting charges**, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved curing compound, finishing to lines and gra	Cum							
	4th cross Varadarajangara		1	100.00	5.00	0.125	62.50		
	5th Cross		1	100.00	5.00	0.125	62.50		
							125.00	5287.68	**660960.00**
	Basic Rate	4896.00							
	Area Weightage @8%	391.68							
	Total	**5287.68**							
15	KSRB 4-6.4 : Providing and removing **centering, shuttering, strutting,** propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications. Specification NO KBS 4.6.2 Page No. 15 / Item No. 4.31 / PWD SR 2015-16	**sqm**							
	CC road at edges		2	100.00		0.30	60.00		
			2	100.00		0.30	60.00		
			4	6.00		0.90	21.60		
							141.60	306.72	**43432.00**
	Basic Rate	284.00							
	Area Weightage @8%	22.72							
	Total	**306.72**							
16	Vaccum De-watering with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cost of generator HOM of machinery Screed Vibratiry, Power Floater, blade and disc etc., with all lead and lift No. **174 / Item No. 22.7 / PWD SR 2015-16**	Sqm							
	4th cross Varadarajangara		1	100.00	5.00		500.00		
	5th Cross		1	100.00	5.00		500.00		

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
							1000.00	97.20	97200.00
	Basic Rate	90.00							
	Area Weightage @8%	7.20							
	Total	**97.20**							
	Sub Total								2969958.00
	Third Party Inspection Charges @ 1%								29700.00
	Add for unforseen and rounding off	L/S							342.00
								Total	3000000.00
	Rupees Thirty Lakh(s) Only								

Certificate:

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per PWD SR of 2015-16.
3 The provisions were made in this estimate are necessary and adequate.
4 This works come under B.B.M.P. limits.

Assistant Engineer
Ward No. 11

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Vidyaranyapura Sub Division

Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division
24/12

Technical Sanction
Accorded For ..30.00.. lakh Rs.
Head of A/C..P-3165..
CER NO :..90.. Dt:.. 31/12/16

TA CE (YNK)

Administrative Approval
Accorded For ..30.00.. lakh Rs.
Head of A/C..P-3165..
CER NO :..80.. Dt:.. 31/12/16

TA CE (YNK)